



Presented to California Hydrogen Highway Network Implementation Workshop

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Three Strategic Business Units

H₂ Generation

- H₂ Generation & Refueling
 - Alkaline electrolysis
 - PEM electrolysis
 - NG reforming



Power Products

- Fuel Cell Products
 - Stationary
 - Motive



Test & Diagnostics

- Equipment
- Services
- Diagnostics



South Coast Air Quality Management District
Diamond Bar, California (2004 - present)

City of Chula Vista
City of Chula Vista, California (2003 - present)





Toyota Motor Sales USA
Toyota Headquarters in Torrance, California (2002 - present)






California Fuel Cell Partnership
Richmond, California (2002 - present)






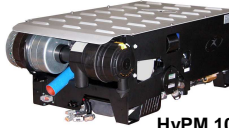



Fuel Cells Power Modules

HyPM Product Line


- Broad Range of Products: 7, 10, 65 kW
- Demonstrated Durability*: 6000+ hrs
- Start-stop cycles demonstrated*: ~6000
- Efficiency: 48% to 56%
- Compact: 156L for HyPM 10 (11 L/kW)
- Weight: 95 kg for HyPM 10
- Low Pressure System: <20kPa
- CANBus Communication System
- Voltage Input for Startup: 12V







HyPM XR 10



HyPM 65

* Refers to HyPM 10 test modules



Fuel Cell Applications





















Fuel Cell Hybrid Buses



■ Available in different lengths

- 17 ft
→
 
- 22 ft
→
 
- 30 ft
→
 
- 34 ft
→
 
- 40 ft
→
 
- 45 ft
→
 



Thank you!

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